Applicant : Vincent P. Stanton, Jr.
 Attorney's Docket No.: 11926

 Serial No. : 09/963,333
 015002 / 0017.CIP3DIV1

Filed : September 24, 2001

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In the Specification:

Replace the Sequence Listing with the enclosed, revised Sequence Listing.

Replace Table 10 beginning at page 171, with the following table:

Variance Table

Hugo	GID	OMIM ID	VGX	Symbol	Description	
	Variance Start	Variance			_	
U73338		156570	GEN-	69	Methionine	
Synthase +	(SEQ ID NO:1)					
	194	(-201) C > 0	- 5	5 '		
	284	(-111)C>7	[5 '		
	1136	742G> <i>F</i>	Ą	V248M	I	
	1252	858C>1	ŗ	Silent	•	
	1334	940G> <i>F</i>	A	D314N	Ī	
	1699	1305T>0	C	Silent	•	
	3150	2756A>0	3	D919G	j	
	3207	2813G>T		S938I	•	
	3209	2815G>C		G939R		
	5444	5050C> <i>P</i>		3'		
	5551	5157G> <i>P</i>		3'		
	5573	5179C>T		3'		
	5659	5265T>C		3'		
	5678	5284T>C		3'		
	5874	5480C>1		3'		
	5934	5540A>G		3'		
D78586	D78586	114010	GEN-	BR	CAD PROTEIN	(SEQ
ID NO:2)						
	3434	3408C>T		Silent		
	4313	4287T>C		Silent		
	4799	4773A>G		Silent		
	5255	5229C>T		Silent		
	5455	5429G>A	7	R1810Q		
	5507	5481T>C	;	Silent		
	5810	5784C>T	•	Silent		
	6128	6102C>T	1	Silent		
	6626	6600C>T	1	Silent		
	6686	6660C>T	,	Silent		
U09178	-		GEN-			
Dihydropyr	imidine Dehydro):3)		
	166	85T>C	:	C29R		

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577				
1708		496A>G	M166V	
3432 3351T>C 3' 3682 3601C>T 3' 3730 3649G>A 3' 3925 3844A>G 3' 3937 3856T>C 3' U19720 U19720 600424 GEN-I1 Folate Transporter (SLC19A1) (SEQ_ID_NO:4) 175 80G>A R27H 341 246C>G Silent 791 696C>T Silent 1067 972G>A Silent 1337 1242C>A Silent 1337 1242C>A Silent 1997 1902T>C 3' 2100 2005^2006insG 3' 2582 2487T>G 3' 2617 252C>T 3' 2652 2557T>C 3' U92868 U92868 600424 GEN-LUK Homo sapiens reduced folate carrier (RFC1) gene, exons 1a, 1c and 1b (SEQ_ID_NO:5) 431 431A>G Intron 441 441A>G Intron 448 498C>T Intron 498 498C>T Intron 579 579G>C Intron 599 599G>C Intron 599 599G>C Intron 599 599G>C Intron 599 599G>C Intron 590 599G>C Intron 591 136 1031A>G 3' 1497 1392T>A 3' D00517 D00517 188350 GEN-KL Thymidylate Synthase, promoter (SEQ_ID_NO:7) (SEQ_ID_NO:2) 276 276C>T Intron 457 457^insC Intron 451 491C>A Intron 451 1110C 452 452G>A Intron 453 533T>C Intron 454 452C>A Intron 455 452G>A Intron 457 457^insC Intron 533 533T>C Intron 533 533T>C Intron 534 535T>C Intron 535 535T>C Intron 537 5375C Intron 538 533T>C Intron 539 639A>G Intron 530 5375>C Intron 531 1110C		557A>G	Y186C	
3682 3601C>T 3' 3730 3649G>A 3' 3925 3844A>G 3' 3937 3856T>C 3' U19720 U19720 600424 GEN-I1 Folate Transporter (SLC19A1) (SEQ_ID_NO)+4): 175 80G>A R27H 341 246C>G Silent 791 696C>T Silent 1067 972G>A Silent 1997 1902T>C 3' 2100 2005^2006insG 3' 2582 2487T>G 3' 2617 2552C>T 3' 2652 2557T>C 3' U92868 U92868 600424 GEN-LUK Homo sapiens reduced folate carrier (RFC1) gene, exons 1a, 1c and 1b (SEQ_ID_NO)+5) 431 441A>G Intron 441 441A>G Intron 498 498C>T Intron 498 498C>T Intron 579 579G>C Intron 599 599G>C Intron 590 599G>C In		1627A>G	I543V	
3730 3649G>A 3: 3925 3844A>G 3: 3937 3856T>C 3: 3937 3937 3937 3937 3937 3937 3937 3937	3432	3351T>C	3'	
3925 3844A>G 3' 3937 3856T>C 3' U19720 U19720 600424 GEN-I1 Folate Transporter (SLC19A1) (SEQ ID NO+4) 175 80G>A R27H 341 246C>G Silent 791 696C>T Silent 1067 972G>A Silent 1337 1242C>A Silent 1997 1902T>C 3' 2100 2005^2006insG 3' 2582 2487T>G 3' 2617 2522C>T 3' 2652 2557T>C 3' U92868 U92868 600424 GEN-LUK Homo sapiens reduced folate carrier (RFC1) gene, exons la, lc and lb (SEQ ID NO:5) 431 431A>G Intron 441 441A>G Intron 441 441A>G Intron 441 441A>G Intron 579 579G>C Intron 599 599G>C Intron X02308 X02308 188350 GEN-KL Thymidylate synthetase (SEQ ID NO:6) (SEQ ID NO:1) 1066 961T>C 3' 1136 1031A>G 3' 11497 1392T>A 3' D00517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 452 452G>A Intron 451 491 321T>C Intron 491 491C>A Intron 491 491C>A Intron 491 491C>A Intron 624 624A>C Intron 639 639A>G Intron	3682	3601C>T	3'	
3925 3844A>G 3' 3937 3856T>C 3' 3937 3856T>C 3' 3937 3856T>C 3' 3' 3937 3856T>C 3' 3' 3937 3856T>C 3' 3' 3' 3' 3' 3' 3' 3	3730	3649G>A	3 '	
Name	3925	3844A>G		
Transporter	3937		_	
Transporter (SLC19A1) (SEQ ID NO:4) 175	U19720 U19720		_	olate
175	Transporter (SLC19A1)			01466
341 246C>G Silent 791 696C>T Silent 1067 972G>A Silent 1337 1242C>A Silent 1997 1902T>C 3' 2100 2005^2006insG 3' 2582 2487T>G 3' 2652 2557T>C 3' U92868 U92868 600424 GEN-LUK Homo sapiens reduced folate carrier (RFC1) gene, exons 1a, 1c and 1b (SEQ ID NO:5) 431 431A>G Intron 441 441A>G Intron 498 498C>T Intron 579 579G>C Intron 599 599G>C Intron 599 599G>C Intron X02308 X02308 188350 GEN-KL Thymidylate synthetase (SEQ ID NO:6) (SEQ ID NO:1) 1066 961T>C 3' 1136 1031A>G 3' 1497 1392T>A 3' 100517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron			R27H	
791 696C>T Silent 1067 972G>A Silent 1337 1242C>A Silent 1997 1902T>C 3' 2100 2005^2006insG 3' 2582 2487T>G 3' 2617 2522C>T 3' 2652 2557T>C 3' U92868 U92868 600424 GEN-LUK Homo sapiens reduced folate carrier (RFC1) gene, exons 1a, 1c and 1b (SEQ ID NO:5) 431 431A>G Intron 441 441A>G Intron 498 498C>T Intron 579 579G>C Intron 579 579G>C Intron 579 579G>C Intron 579 599S>C Intron 599 599S>C Intron 599 599S>C Intron 599 599S>C Intron 599 599S>C Intron 590 599S>C Intron 591 1000 11 100	341			
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431 431A>G Intron 441 441A>G Intron 498 498C>T Intron 579 579G>C Intron 599 599G>C Intron X02308 X02308 188350 GEN-KL Thymidylate synthetase (SEQ ID NO:6) (SEQ ID NO:1) 1066 961T>C 3' 1136 1031A>G 3' 1497 1392T>A 3' D00517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron				ens reduced
441 441A>G Intron 498 498C>T Intron 579 579G>C Intron 599 599G>C Intron X02308 X02308 188350 GEN-KL Thymidylate synthetase (SEQ ID NO:6) (SEQ ID NO:1) 1066 961T>C 3' 1136 1031A>G 3' 1497 1392T>A 3' D00517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron	101ate Callier (RFCI)	gene, exons la,		SEQ ID NO:5)
498				
579 579G>C Intron 599 599G>C Intron X02308 X02308 188350 GEN-KL Thymidylate synthetase (SEQ ID NO:6) (SEQ ID NO:1) 1066 961T>C 3' 1136 1031A>G 3' 1497 1392T>A 3' D00517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron				
Second S				
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1136 1031A>G 3' 1497 1392T>A 3' D00517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron				
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D00517 D00517 188350 GEN-LUC Thymidylate synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron				
synthase, promoter (SEQ ID NO:7) (SEQ ID NO:2) 276				
276 276C>T Intron 321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron				dylate
321 321T>C Intron 452 452G>A Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron	synthase, promoter (SE)		ID NO:2)	
452 452G>A Intron 457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron			Intron	
457 457^insC Intron 491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron		321T>C	Intron	
491 491C>A Intron 533 533T>C Intron 624 624A>C Intron 639 639A>G Intron			Intron	
533 533T>C Intron 624 624A>C Intron 639 639A>G Intron		457^insC	Intron	
624 624A>C Intron 639 639A>G Intron		491C>A	Intron	
639 639A>G Intron		533T>C	Intron	
639 639A>G Intron		624A>C	Intron	
C.F.F.	639	639A>G	Intron	
65517C Intron	655	655T>C	Intron	

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14795

D0059			188350		LUD	Н	omc) sa	piens
gene for	thymidylate	syntha	ase, exo	ns 1, 2	2, 3,	4,	5,	6,	7,
complete	cds (SEQ ID	NO:8)	(SEQ ID	NO:3)				Ť	
	701			A>C	Intr	on			
	716		716	A>G	Intr	on			
	732		732	T>C	Intr				
	1293		1293	A>G	Intr	on			
	1322		1322	C>G	Intr	on			
	1379		1379	T>C	Intr				
	1590		1590	C>T	Intr	on			
	1688		1688	C>G	Intr	on			
	2401		2401.	A>G	Intr	on			
	2429		2429	G>A	Intr	on			
	2488		2488	C>T	Intr				
	2594		2594	G>T	Intr				
	2618		26180	G>A	Intr				
	3083		30830	G>A	Intr				
	3125		31250	G>A	Intr				
	3212		32120	C>T	Intr				
	3619		3619		Intr				
	3635		36350	G>A	Intr				
	4256		42560	G>A	Intr				
	4898		48987	A>G	Intr				
	5006		50060	C>T	Intr				
	5062		50620	G>A	Intr				
	5167		51670	G>A	Intr				
	11069		110697	A>G	Intr	on			
	11238		112380	C>T	Intr	on			
	11293		112937	ſ>G	Intr	on			
	11422		114227	r>c	Intr	on			
	11686		116860	C>T	Intr	on			
	12598		125987	T>C	Intr	on			
	13171		131717	T>C	Intr	on			
	13298		132980	S>A	Intr	on			
	13645		136457	:>C	Intr	on			
	13751		137510	C>A	Intr	on			
	13782		137821	:>C	Intr	on			
	13806		138061	:>C	Intr	on			
	13813		138131	:>C	Intr	on			
	14479		14479F	1>G	Intro	on			
	14546		14546^in	ısT	Intro	on			
	14585		14585C	:>T	Intro	on			
	14729		147290	S>A	Intro				
	14787		14787C	:>T	Intro				
	1/1795		147050	· > 7\	·				

14795G>A

Intron

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15041	15041T>C	Intron
15343	15343G>A	Intron
15449	15449G>A	Intron
15502	15502G>A	Intron
15545	15545C>T	Intron
15589	15589A>G	Intron
15769	15769C>T	3'
15839	15839A>G	3'
16148	16148G>A	3'
16198	16198T>G	3'
16202	16202G>T	Intron
X59618 X59618		
reductase M2 polypept		NIDONUCIEOLIGE
128	(-67) G>A	5'
189	(-6) T>G	5'
524	330C>G	Silent
1399	1205T>A	3'
1464	1270G>A	3'
1636	1442C>T	
1738	1544C>T	3'
2259	2065T>C	3'
S72487 S72487		3'
phosphorylase, partial		LD Thymidine
183	19G>A	D7.11
483	319C>T	D7N
601		3'
1299	437G>C	3'
	1135G>A 131222 GEN-LUB	3'
		Thymidine
phosphorylase, promote 124	ег ана genomic (SEQ- 124C>T	
439		3'
1044	439G>A	3'
1331	1044^insCT	3'
1977	1331G>A	3'
2149	1977G>A	Intron
2467	2149G>A	Intron
2634	2467A>G	Intron
2975	2634C>G	Intron
3116	2975G>A	Intron
3255	3116G>T	Intron
3344	3255A>C	Intron
	3344T>C	Intron
4051	4051C>A	Intron
4782	4782G>A	Intron
5022	5022T>C	Intron
5266	5266G>A	Intron

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5285 5438 5482 5629 5648 5731 M98045 M98045 folylpolyglutamate synther 802 1747 1900 U24253 U24253 1369	732C>T 1677G>T 1830T>C	Intron Intron Intron C3 Homo sapiens ete cds (SEQ ID NO:12) Silent 3' 3'
		Human
folylpolyglutamate synthet partial cds (SEQ ID NO:13)	Lase (FPGS) gene	, exons 5-11, and
1424		T 1
1649	1424C>A 1649G>A	Intron
2554	2554A>G	Intron
U24252 U24252	136510 GEN-L	Intron
Folylpolyglutamate synthet	ase promoter as	or overs 1 4 (CEO TE
NO: 14)	doc, promoter a	nd exons 1-4 (SEQ 10
263	263A>G	Intron
266	266G>T	Intron
527	527C>G	Intron
1037	1037A>G	5'
1139	1139G>A	Intron
1217	1217C>T	Intron
1647	1647C>T	Intron
1955	1955G>A	Intron
2017	2017G>A	Intron
2037	2037G>A	Intron
2189	2189A>G	Intron
2282	2282C>T	Intron
2309	2309A>G	Intron
U09806 U09806	236250 GEN-41	
methylenetetrahydrofolate		partial cds (SEO ID
NO:15)	,	Falaiat ogg (SDÖ IB
120	120T>C	Silent
464	464T>G	M155R
519	519C>T	Silent
668	668C>T	A223V
1059	1059T>C	Silent
1289	1289C>A	3'
1308	1308T>C	3'
1784	1784G>A	3'

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AF061655 deaminase,	AF061655 promoter	123920 (SEQ_ID_NO:	GEN-LUJ	Cytidine
	575		575T>C	Intron
	648		648T>C	Intron
	771		771G>C	Intron
	883		883G>A	Intron
	941	94	1^insC	5'
	1051	1	051A>C	K270

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